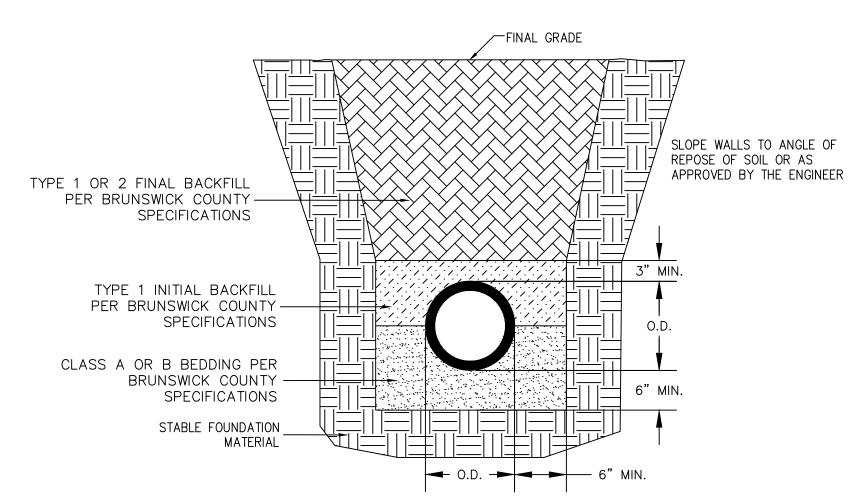
OFFSETS BETWEEN WATER/SEWER PRESSURE MAIN AND STORM DRAIN DETAIL WS-20

DEPTH < 20 FEET - CLASS "A" BEDDING
 UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW PIPE
 FILL PIPE TO SPRING LINE WITH NO. 57 STONE

<u>DEPTH > 20 FEET - CLASS "B" BEDDING</u>
• UNDERCUT TRENCH BOTTOM 6 INCHES MINIMUM BELOW

• FILL TO 6 INCHES ABOVE PIPE WITH NO. 57 STONE

INSTALLATIONS THAT EXCEED 20 FEET DEPTH SHALL BE



NOTES:

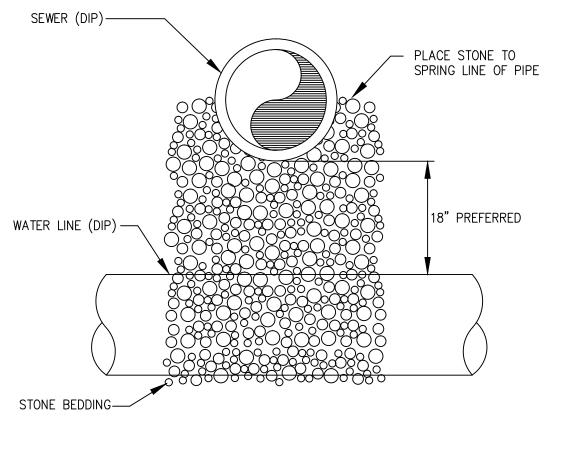
1. REFER TO THE BRUNSWICK COUNTY TECHNICAL SPECIFICATIONS FOR

BACKFILL AND TRENCHING REQUIREMENTS
2. PIPE SIZE AS INDICATED ON PLANS

GRAVITY SEWER

PIPE TRENCH / BEDDING DETAIL

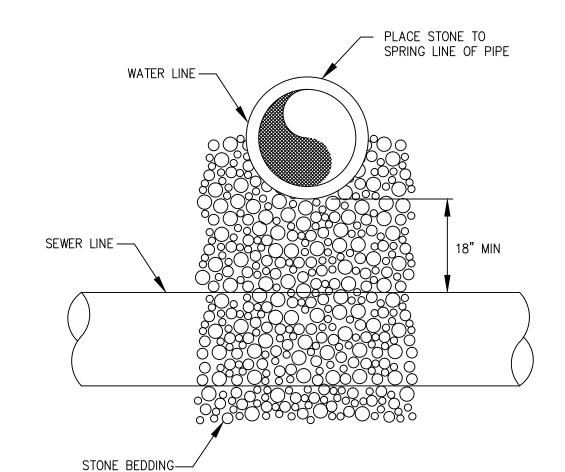
DETAIL WS-22



NOTES:

- 1. BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING.
- 2. ALTERNATIVELY, PIPES MAY BE SLEEVED WITH FERROUS MATERIALS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING AS APPROVED BY BRUNSWICK COUNTY ENGINEERING.

SEWER CROSSING ABOVE WATER LINE



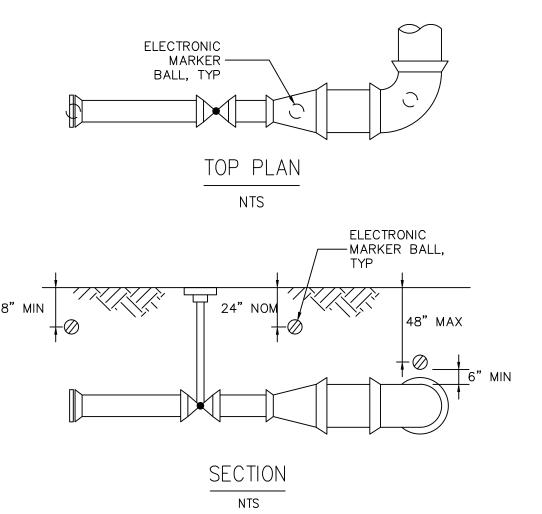
NOTES:

- 1. SOIL REPLACED UNDER THE WATER MAIN SHALL
- BE COMPACTED.

 2. IF THE WATER MAIN CROSSES AT LESS THAN 18" ABOVE THE SEWER MAIN BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, OR THEY MAY HAVE FERROUS SLEEVES PUT AROUND THEM AS APPROVED BY BRUNSWICK COUNTY ENGINEERING.

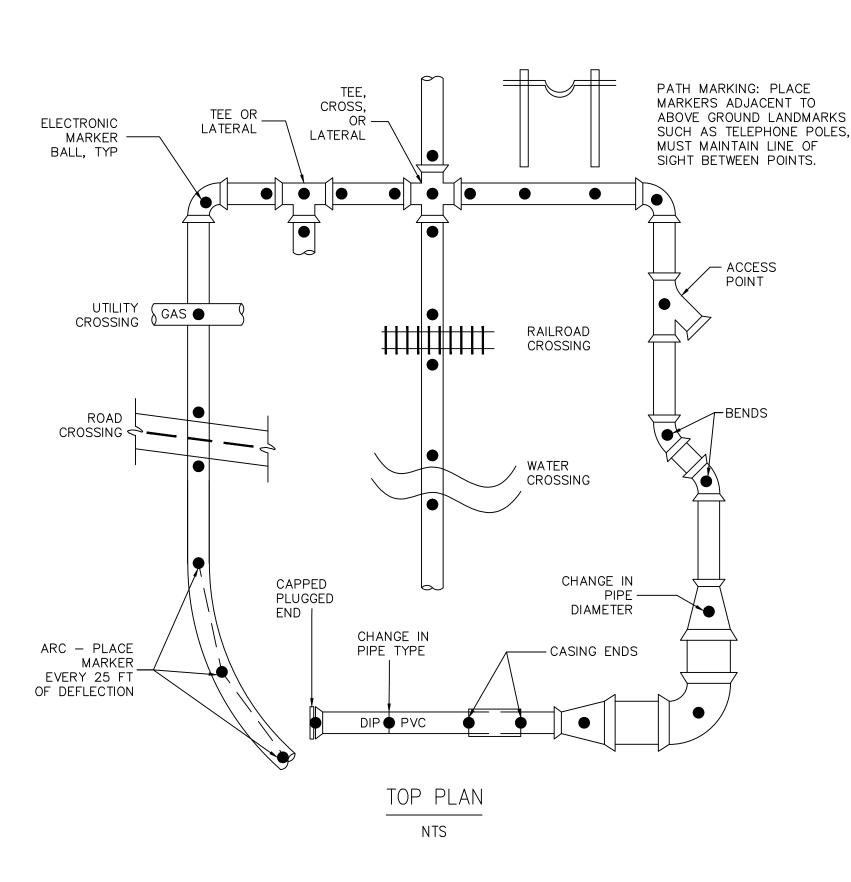
SEWER CROSSING BELOW WATER LINE

SEWER OFFSETS ABOVE AND BELOW WATER MAINS DETAIL WS-21



NOTES:

- ELECTRONIC MARKER BALL MATERIALS SHALL BE AS FOLLOWS:
- a. WATER 3M SCOTCHMARK ELECTRONIC MARKER, MODEL # 1403—XR, 4—INCH DIAMETER, BLUE b. SEWER — 3M SCOTCHMARK ELECTRONIC MARKER, MODEL
- # 1404-XR, 4-INCH DIAMETER, GREEN
 c. RECLAIMED WATER 3M SCOTCHMARK ELECTRONIC
 MARKER, MODEL # 1408-XR, 4-INCH DIAMETER, PURPLE
- 2. PLACEMENT SHALL CONFORM TO DETAILS ABOVE. FOR FURTHER GUIDANCE, REFER TO BRUNSWICK COUNTY TECHNICAL SPECIFICATIONS SECTION TITLED "ELECTRONIC MARKER BALLS FOR WATER AND SEWER FORCE MAINS".



ELECTRONIC MARKER

BALL PLACEMENT DETAIL

DETAIL WS-23

GENERAL WATER & SEWER DETAILS
FOR
BRUNSWICK COUNTY

Revisions

1.1 - DATED 7/12/2013

Modified Note 1c 1.2 - DATED 1/16/2014 Add. WS - 20,21,22 and renumbered WS-23

 Date:
 07-11-12

 Scale:
 NTS

 Drawn By:
 JDM

 Checked By:
 WLP

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